

REMARKS/ARGUMENTS

By this Amendment, Applicants propose to amend independent claims 1, 15, 30, 35, and 46 for clarity. Claims 55 and 56 have been canceled. Claims 1-54 and 57 are pending in the present application.

Claims 1, 2, 6, 9-11, 15, 16, 22, 25, 26, 35, 36, 40, 43, 44, 55 and 56 stand rejected under 35 U.S.C. § 102(b) as being anticipated by Sanpei et al., U.S. Patent No. 5,732,349. Claims 5, 21, and 39¹ stand rejected under 35 U.S.C. § 103(a) as being unpatentable over Sanpei et al. in view of Konno, U.S. Patent No. 6,282,431. Claims 3, 7, 17-19, 23, 37 and 41 stand rejected under 35 U.S.C. § 103(a) as being unpatentable over Sanpei et al. in view of Tomiyori, U.S. Patent No. 5,305,372. Claims 4, 20, and 38 stand rejected under 35 U.S.C. § 103(a) as being unpatentable over Sanpei et al. in view of Moon et al., U.S. Patent No. 6,085,098. Claims 8, 24 and 42 stand rejected under 35 U.S.C. § 103(a) as being unpatentable over Sanpei et al. in view of Nakamura, U.S. Patent No. 6,201,963. Claims 12, 13, 27, 28, 30, 31, 34, 46, 49-50, 53, 54 and 57 stand rejected under 35 U.S.C. § 103(a) as being unpatentable over Sanpei in view of Siddiqui et al., U.S. Patent No. 6,292,666. Claims 34 and 49 stand rejected under 35 U.S.C. § 103(a) as being unpatentable over Sanpei et al. in view of Siddiqui and in view of Konno. Claims 32, 47 and 51 stand rejected under 35 U.S.C. § 103(a) as being unpatentable over Sanpei et al. in view of Siddiqui as applied above and in view of Tomiyori. Claims 33 and 48 stand rejected under 35 U.S.C. § 103(a) as being unpatentable over Sanpei et al in view of Siddiqui and in view of Moon et al. Claim 52 has been rejected under 35 U.S.C. § 103(a) as being unpatentable over Sanpei et al. in view of Siddiqui and in view of Nakamura, U.S. Patent No. 6,201,963. Claim 14 has been rejected under 35 U.S.C. § 103(a) as being unpatentable over Sanpei et al. Applicants respectfully traverse the rejections.

The present invention as recited in amended claim 1, is a system for updating information stored in a memory of a portable electronic device. The system includes “a plurality of base stations, each of said plurality of base stations being located at a respective geographic location and automatically transmitting a radio signal including information specific to said respective geographic location,” and “a portable electronic device including a transceiver,” “wherein when said portable electronic device comes into range of one of said plurality of base stations, said transceiver establishes a communications link automatically and said device automatically receives said radio signal from said one of said plurality of base stations and based on said information in said radio signal updates said information stored in said memory of said portable electronic device.”

In contrast to the present invention as recited in claim 1, Sanpei et al. discloses a telephone system in which portable telephones make a calls by transmitting a channel connection request signal to a corresponding base station via radio signals. See col. 1, lines 19-22 of Sanpei et al. If there is a free channel, the base station transmits a connection permission signal to the portable telephone via a control channel. Once communication is established, channel decoder 6 extracts speech and control data from the time-sharing multiplex signal transmitted from the base station. See Sanpei et al., col. 4, lines 28-44. Thus, Sanpei et al. does not teach a system for updating information system for updating information stored in a memory of a portable electronic device, which includes “a plurality of base stations, each of said plurality of base stations being located at a respective geographic location and automatically transmitting a radio signal including information specific to said respective geographic location,” “a portable electronic device including a transceiver,” “wherein when said portable electronic device comes into range of one of said plurality of base stations, said transceiver establishes a communications link automatically and said device automatically receives said radio signal from said one of said plurality of base stations and based on said information in said radio signal updates said information stored in said memory of said portable electronic device.”

¹ The Examiner’s concerns regarding antecedent basis in claims 5 and 39, as noted in paragraph 2 of the

On the contrary, the system disclosed by Sanpei et al. relies on an established telephone call to transmit LAI (location area identification) information. More specifically, the telephone disclosed by Sanpei et al. must be operating in order for LAI information to be transmitted. See col. 6, lines 3-4, and Fig. 4, which describe operation of the Sanpei et al. device.

None of the secondary references, Tomiyori, Moon et al., and Nakamura cure the deficiencies of Sanpei et al., as noted in Applicants' previous response. Accordingly, claim 1, and its dependent claims 2-14 are submitted as being patentable over the cited references.

The present invention as recited in amended claim 15, is a portable electronic device including "a processor," "a memory coupled to said processor, said memory storing information," and "a receiver coupled to said processor, said receiver automatically receiving radio signals by way of a link automatically established between a base station and said portable electronic device based on proximity to said base station, said radio signals including information specific to a geographic location, said receiver providing said information specific to said geographic location to said processor," "wherein said processor in response to automatically receiving said information from said receiver updates said information stored in said memory based on said information specific to said geographic location."

By contrast, Sanpei et al. discloses a telephone system as described above in connection with claim 1. Sanpei et al. does not teach a portable electronic device including a processor, a memory coupled to the processor and storing information, and "a receiver coupled to said processor, said receiver automatically receiving radio signals by way of a link automatically established between a base station and said portable electronic device based on proximity to said base station," the radio signals including information specific to a geographic location, the receiver providing the information specific to the geographic location to the processor, wherein the processor in response to automatically receiving the

information from the receiver updates the information stored in the memory based on the information specific to the geographic location.

None of the secondary references, Tomiyori, Moon et al., and Nakamura cure the deficiencies of Sanpei et al., as noted in Applicants' previous response. Accordingly, claim 15, and its dependent claims 16-29 are patentable over the cited references.

The present invention as recited in amended claim 34 is a method for updating information stored in a memory of a portable electronic device. The method includes the steps of "receiving a radio signal automatically from a base station using a communications link established automatically between said base station and said portable electronic device when said portable electronic device comes into range of said base station, said radio signal including information specific to a geographic location in which said base station is situated," and "updating said information stored in said memory based on said information specific to said geographic location."

By contrast, Sanpei et al. discloses a telephone system that relies on an existing speech communications link to transmit communication control data. Sanpei et al. does not teach or suggest a method of updating information stored in a memory of a portable electronic device which includes the steps of "receiving a radio signal automatically from a base station using a communications link established automatically between said base station and said portable electronic device when said portable electronic device comes into range of said base station, said radio signal including information specific to a geographic location in which said base station is situated," and "updating said information stored in said memory based on said information specific to said geographic location."

None of the secondary references, Tomiyori, Moon et al., and Nakamura cure the deficiencies of Sanpei et al., as noted in Applicants' previous response. Accordingly, claim 34, and its dependent claims 35-45, are patentable over the cited references.

With respect to independent claims 30 and 46, and their respective dependent claims 31-34 and 47-54, Applicants note that Siddiqui et al. discloses that a separate ground station is used to determine the location of the mobile station. The location

country then is sent to the mobile station by the ground station. See step 630 of Fig. 6. Thus, Siddiqui et al. does not teach or suggest a system in which a portable electronic device includes "a processor," "a memory coupled to said processor, said memory storing information," and "a global positioning satellite receiver within said portable electronic device coupled to said processor, said global positioning satellite receiver determining a current geographic position of said portable electronic device based on global positioning signals received directly from at least one satellite, said global positioning satellite receiver providing said current geographic position of said portable electronic device to said processor," "wherein said processor in response to receiving said current geographic position of said portable electronic device automatically updates said information stored in said memory based on said current geographic position of said portable electronic device." Accordingly, independent claims 30 and 46, and their respective dependent claims 31-34 and 47-54, are patentable over the cited prior art.

Attached hereto is a marked-up version of the changes made to the specification and claims by the current amendment. The attached page is captioned "Version with markings to show changes made."

In view of the above, each of the presently pending claims in this application is believed to be in immediate condition for allowance. Accordingly, the Examiner is respectfully requested to withdraw the outstanding rejection of the claims and to pass this application to issue.

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Respectfully submitted,

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Version With Markings to Show Changes Made

1. (Amended) A system for updating information stored in a memory of a portable electronic device, said system comprising:

a plurality of base stations, each of said plurality of base stations being located at a respective geographic location and automatically transmitting a radio signal including information specific to said respective geographic location; and

a [transceiver in said] portable electronic device including a transceiver for receiving a radio signal from said base station,

wherein when said portable electronic device comes into range of one of said plurality of base stations, said transceiver establishes a communications link automatically and said device automatically receives said radio signal from said one of said plurality of base stations and based on said information in said radio signal updates said information stored in said memory of said portable electronic device.

15. (Amended) A portable electronic device comprising:

a processor;

a memory coupled to said processor, said memory storing information; and

a receiver coupled to said processor, said receiver automatically receiving radio signals by way of a link automatically established between a base station and said portable electronic device based on proximity to said base station, said radio signals including information specific to a geographic location, said receiver providing said information specific to said geographic location to said processor,

wherein said processor in response to automatically receiving said information from said receiver updates said information stored in said memory based on said information specific to said geographic location.

30. (Amended) A portable electronic device comprising:

a processor;

a memory coupled to said processor, said memory storing information; and

a global positioning satellite receiver within said portable electronic device coupled to said processor, said global positioning satellite receiver determining a current geographic position of said portable electronic device based on global positioning signals received directly from at least one satellite, said global positioning satellite receiver providing said current geographic position of said portable electronic device to said processor,

wherein said processor in response to receiving said current geographic position of said portable electronic device from said global positioning satellite receiver automatically updates said information stored in said memory based on said current geographic position of said portable electronic device.

35. (Amended) A method for updating information stored in a memory of a portable electronic device, said method comprising the steps of:

receiving a radio signal automatically from a base station using a communications link established automatically between said base station and said portable electronic device when said portable electronic device comes into range of said base station, said radio signal including information specific to a geographic location in which said base station is situated; and

updating said information stored in said memory based on said information specific to said geographic location.

46. (Amended) A method for updating information stored in a memory of a portable electronic device, said method comprising the steps of:

determining a position of said portable electronic device based on signals received directly by said portable electronic device from at least one global positioning satellite;

determining a geographic location of said portable electronic device based on said determined position using a processor in said portable electronic device; and

updating said information stored in said memory based on said determined geographic location.